# HP Insight Integration with Microsoft Systems Management Server 2.0 User Guide



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HP Insight Integration with Microsoft Systems Management Server 2.0 User Guide

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# **About This Guide**

This guide is designed to be used as step-by-step instructions for installation and as a reference for operations, troubleshooting, and future upgrades of the HP Insight Integration for Systems Management Server 2.0.

# **Audience Assumptions**

This guide is intended for use by system integrators and network administrators who are familiar with HP branded server and client system products, Insight Management Agents, Insight Manager, and Microsoft SMS 2.0.

## **Related Documents**

For more information on topics discussed in this guide, refer to one of these sources:

- HP Systems Insight Manager user documentation from the HP Management CD
- Insight Management Agents for Microsoft Windows user documentation from the HP Management CD
- Microsoft Systems Management Server 2.0 for Windows Administrator's Guide
- Microsoft SQL Server for Windows System Administrator's Guide
- Microsoft Windows Administrator's Guide

### Where to Go for Additional Help

In addition to this guide, the following information sources are available:

- Microsoft SMS user documentation
- HP Service advisories and bulletins
- HP Systems Insight Manager software

### **Telephone Numbers**

For the name of the nearest HP authorized reseller:

• In the United States, call 1-800-345-1518.

• In Canada, call 1-800-263-5868.

For HP technical support:

- In the United States and Canada, call 1-800-HP-INVENT (1-800-474-6836).
- Outside the United States and Canada, refer to <u>http://www.hp.com</u>.

# Overview

# Why Use the HP Insight Integration for SMS

Microsoft SMS 2.0 is a scalable software solution that maximizes network resources by centrally managing the maintenance of hardware and software inventories and by distributing, installing, and metering software packages.

SMS is designed to work with many different hardware platforms, and as a result, provides relatively generic hardware inventory data. To obtain additional in-depth asset information and to facilitate software distribution for HP server hardware, the Insight Integration for SMS delivers the following features:

- Insight Inventory Collector—A command line utility that extends the SMS database with HP specific information
- HP Software Distribution Files—Text files that facilitate the distribution of the following software products:
  - HP Insight Management Agents for ProLiant Servers
  - HP ProLiant Support Pack software for Microsoft® Windows® 2000 and 2003
  - HP Insight Inventory Collector

Using these integration solutions, the SMS administrator can collect the inventory data and distribute software packages to any ProLiant server configured as an SMS client.

# **SMS Site Hierarchy**

Using the Insight integration solution requires an understanding of the SMS site hierarchy. This hierarchy can include several site categories:

| Category        | Description  |
|-----------------|--|
| Central site    | Single SMS site that stores system-wide<br>information in a Microsoft SQL Server database.<br>Manages all other SMS sites.               |
| Primary site    | Stores sub-system information in an SMS database. Can manage additional primary or secondary sites.                                      |
|                 | Created by running the SMS setup application.  |
| Secondary site  | Stores information in the SMS database of the associated primary site. Manages no additional sites.                                      |
|                 | Created by the associated primary site.  |
| SMS site server | The machine at a particular site that is responsible for managing that site and for channeling all SMS information to and from the site. |

Table 1-1: SMS Site Categories

NOTE: An SMS site can include one or more domains and can be a parent, a child, or both.

- A parent site contains information on all associated child sites and can manage certain operations at these child sites.
- A child site receives information from and reports information to a parent.

The central site is a parent site.

A primary site is a child site (with the central site or another primary site as parent) and can be a parent site (with secondary sites or other primary sites as child sites).

A secondary site is a child site.

SMS sites are arranged in a hierarchical structure:



Figure 1-1: Sample SMS site hierarchy

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# **Insight Inventory Collector: Features**

### Introduction

The Insight Inventory Collector (also known as *Collect.exe*) is a command line utility that uses Insight Management Agents to obtain HP specific hardware information from SMS 2.0 client sites, and adds this information to the site server's SMS database. The information can be viewed or queried and will automatically update the inventory information in the central site's SQL Server database.

Collect runs on each specified client creating a series of intermediate Management Information Format (*.MIF*) text files that contain inventory information on the particular client. The client SMS inventory agent reads these files and outputs a single *.MIF* file to the site server so that the appropriate database can be updated.

Each HP specific .MIF file includes one or more tables listing specific inventory information.

**NOTE:** Version 7.1 of the HP Insight Integration for SMS is delivered with two *Collect.exe* executable files. These enable existing users of *Collect.exe* to either retain their current Compaq systems data format, or to implement the new HP branded data. All future versions of the Insight Inventory Collector will be delivered using only the HP format.

- HPSMS71\collect\HP\collect.exe—Presents HP server hardware and operating system inventory data using an HP branded format
- HPSMS71\collect\CPQ\collect.exe—Presents HP server hardware and operating system inventory data using a Compaq branded format

**NOTE:** While the .MIF files have retained their original Compaq titles, the contents and output have been modified to represent the new HP standard.

**IMPORTANT:** The .MIF files created by the Insight Inventory Collector will not populate the SMS database automatically. The SMS Hardware Inventory service must be configured and active on each managed system in order to retrieve the .MIF files and populate the SMS database. Please refer to the SMS User Guide or application help for full details on configuring and using the hardware inventory feature of SMS.

# .MIF File Contents

By default, the *.MIF* files are named *Compaq0.MIF – Compaq10.MIF*. Each file contains one or more inventory tables.

Table 2-1 contains the contents of the .*MIF* files.

| Filename     | Inventory Table                    |
|--------------|------------------------------------|
| COMPAQ0.MIF  | CPU attributes                     |
|              | EISA/PCI slots                     |
|              | System attributes                  |
|              | Memory module attributes           |
|              | Portable batteries                 |
|              | Portable docking station           |
|              | Portable PC card slots             |
| COMPAQ1.MIF  | IDE devices                        |
| COMPAQ2.MIF  | Video monitor                      |
| COMPAQ3.MIF  | Health subsystem                   |
| COMPAQ4.MIF  | Drive array controller             |
|              | Drive array logical drive          |
|              | Drive array physical drive         |
| COMPAQ5.MIF  | UPS attributes                     |
| COMPAQ6.MIF  | Storage system attributes          |
| COMPAQ7.MIF  | SCSI devices                       |
| COMPAQ8.MIF  | Software version information       |
| COMPAQ9.MIF  | Remote insight board information   |
| COMPAQ10.MIF | Fibre channel array controller     |
|              | Fibre Channel array logical drive  |
|              | Fibre channel array physical drive |
|              | Fibre channel host controller      |
|              | Cluster node information           |
|              | Cluster interconnect information   |

Table 2-1: Contents of .MIF files

**NOTE:** Table entries depend on the hardware installed on the particular client. For example, if the client is a server, the table for Portable Batteries will be omitted.

### . of Individual Inventory Tables

Table 2-2 contains the contents of each inventory table.

| Filename    | Inventory Table | Туре              | Description  |
|-------------|-----------------|-------------------|--|
| COMPAQ0.MIF | CPU attributes  | CPU number        | Position of particular processor (1-4)   |
|             |                 | CPU type          | Class of Intel® processor, for example: 80486 or Pentium®                                |
|             |                 | CPU speed         | CPU speed in MHz as determined by the HP<br>Management Agents                            |
|             |                 | L2 cache          | Level 2 cache capacity   |
|             |                 | L3 cache          | Level 3 cache capacity   |
| COMPAQ0.MIF | EISA/PCI slots  | Slot number       | Slot where the particular board is installed   |
|             |                 | Board EISA/PCI ID | Board ID; typically three characters to denote the vendor followed by an alphanumeric ID |
|             |                 | Board name        | Vendor's name for the board; formatted per EISA/PCI specifications                       |
|             |                 | Board revision    | Revision level of the board  |

### Table 2-2: Inventory Table Contents

|  | ٦ | able 2-2: | Inventory | Table | Contents | continued |
|--|---|-----------|-----------|-------|----------|-----------|
|--|---|-----------|-----------|-------|----------|-----------|

| Filename    | Inventory Table             | Туре                       | Description   |
|-------------|-----------------------------|----------------------------|---|
| COMPAQ0.MIF | System attributes           | Product name               | Full name of the system, for example HP ProLiant 7000                                 |
|             |                             | Flash ROM                  | Flash ROM installed (YES/NO)  |
|             |                             | System partition           | HP Utilities partition present (PRESENT/NONE)   |
|             |                             | System ROM revision        | Revision level of the ROM installed on the system board                               |
|             |                             | Serial number              | Serial number of HP system  |
|             |                             | Part number                | Part number of HP system  |
|             |                             | Asset tag                  | User-selected string; defaults to Serial Number                                       |
|             |                             | Total system memory        | Memory installed on a Deskpro   |
|             |                             | Hood removal               | Date Deskpro's hood removed   |
|             |                             | Hot plug PCI               | Hot Plug PCI bus support (YES/NO)   |
|             |                             | Ownership tag              | ASCII character string describing system's user<br>specified ownership tag            |
|             |                             | ROM family                 | Family type of system ROM   |
| COMPAQ0.MIF | Memory module<br>attributes | Board/Module number        | Location of particular module; listed first by memory board number then module number |
|             |                             | Module size                | Module size in MB   |
|             |                             | Module type                | Module type, for example: SIMM  |
|             |                             | Module speed               | Module memory speed, for example: 80ns  |
|             |                             | Memory error checking type | Error checking method used, for example; EDC  |
|             |                             | Technology type            | Module memory technology, for example: FPM  |
|             |                             | Serial number              | Module serial number  |
|             |                             | Part number                | Module part number  |
|             |                             | Manufacturer               | Module manufacturer   |
|             |                             | Manufacture date           | Date of manufacture of module   |
|             | Portable batteries          | Index                      | Index of the particular battery   |
|             |                             | Manufacturer               | Battery manufacturer  |
|             |                             | Date                       | Battery manufacture date  |
|             |                             | Serial number              | Battery serial number   |
|             |                             | Asset tag                  | Asset tag of battery  |
|             |                             | Chemistry                  | Battery chemistry, for example: lithium   |

continued

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| Filename    | Inventory Table          | Туре                     | Description   |
|-------------|--------------------------|--------------------------|---|
| COMPAQ0.MIF | Portable docking station | Dock status              | Dock status (DOCKED/UNLOCKED)                                       |
|             |                          | Model name               | Model name of attached docking station                              |
|             |                          | Serial number            | Serial number of docking station                                    |
|             |                          | Asset tag                | Asset tag of docking station  |
|             |                          | ROM revision             | Revision date of the docking station ROM                            |
| COMPAQ0.MIF | PC card slots            | Index                    | Index of the particular slot  |
|             |                          | Slot location            | Physical slot location  |
|             |                          | Card presence            | Card installed (YES/NO)   |
|             |                          | Card status              | Operational status of the installed card                            |
|             |                          | Manufacturer name        | Card manufacturer   |
|             |                          | Device name              | Card name   |
| COMPAQ1.MIF | IDE devices              | Controller/Drive         | Slot number and ID for the IDE controller                           |
|             |                          | Name                     | Name of the IDE device, for example: HP 210                         |
|             |                          | Туре                     | Type of IDE device, for example: disk                               |
|             |                          | Firmware revision        | Revision level of IDE device firmware                               |
|             |                          | Disk size                | Size of the IDE disk  |
|             |                          | Serial number            | Serial number of the IDE device                                     |
| COMPAQ2.MIF | Video monitor            | Description              | Type of monitor   |
|             |                          | Name                     | Model name  |
|             |                          | Serial number            | Serial number of monitor  |
|             |                          | Horizontal pixels        | Maximum horizontal pixel resolution                                 |
|             |                          | Vertical pixels          | Maximum vertical pixel resolution                                   |
|             |                          | Frequency range          | Horizontal and vertical frequency range<br>supported by the monitor |
|             |                          | Fault management support | Presence of fault management support<br>(YES/NO)                    |
|             |                          | Manufacturer ID          | Manufacturer of the monitor   |
|             |                          | EDID version             | EDID version used by the monitor                                    |

#### Table 2-2: Inventory Table Contents continued

| Filename    | Inventory Table               | Туре                | Description  |
|-------------|-------------------------------|---------------------|--|
| COMPAQ3.MIF | Health subsystem              | ASR status          | Status of Automatic Server Recovery-2<br>(ENABLED/DISABLED)                                    |
|             |                               | ASR reboot to       | How the system will reboot following an ASR-2 event (OPERATING SYSTEM/HP UTILITIES)            |
|             |                               | Pager status        | Status of ASR-2 paging (ENABLED/DISABLED)  |
|             |                               | Pager number        | Number called by server when initiating a paging event   |
| COMPAQ4.MIF | Drive array controller        | Model               | Drive array model, for example; SMART array  |
|             |                               | FW revision         | Revision level of drive array controller firmware  |
|             |                               | Slot                | Slot number of drive array controller  |
|             | Drive array logical drive     | Index               | Index of the particular logical drive  |
|             |                               | Controller slot     | Slot of drive array controller with which logical drive associated                             |
|             |                               | Drive size          | Size of the logical drive  |
|             |                               | Fault tolerance     | Type of fault tolerance used by the logical drive, for example: RAID 5                         |
|             |                               | Physical drives     | List of physical drives included in the logical drive  |
| COMPAQ4.MIF | Drive array<br>physical drive | Slot/Bay/Port       | Slot number of the controller; port used by the physical drive; drive bay containing the drive |
|             |                               | Model               | Model of physical drive, for example: HP<br>M2694ES-512  |
|             |                               | Firmware revision   | Revision level of drive firmware   |
|             |                               | Drive size          | Size of physical drive   |
|             |                               | Hot pluggable       | Specifies if drive is hot-pluggable (YES/NO)   |
|             |                               | Serial number       | Serial number of the drive   |
| COMPAQ5.MIF | UPS attributes                | Model               | UPS model name   |
|             |                               | Serial number       | UPS serial number  |
|             |                               | Auto shutdown delay | Time in minutes UPS waits before shutting<br>down after power loss                             |

Table 2-2: Inventory Table Contents continued

| Filename    | Inventory Table                  | Туре                    | Description  |
|-------------|----------------------------------|-------------------------|--|
| COMPAQ6.MIF | Storage system attributes        | Index                   | Index of the particular storage system   |
|             |                                  | Model                   | Storage system model, for example:<br>ProLiant 1-5E  |
|             |                                  | Controller slot         | Slot number of storage system controller   |
|             |                                  | SCSI bus index          | SCSI index of storage system   |
|             |                                  | FW revision             | Revision level of storage system firmware  |
|             |                                  | Vendor                  | Storage system vendor  |
| COMPAQ7.MIF | SCSI devices                     | Controller Slot/SCSI ID | Slot number and SCSI ID of the SCSI controlle  |
|             |                                  | Name                    | HP name for the SCSI device, for example: HP 2105  |
|             |                                  | Туре                    | Type of SCSI device, for example: disk   |
|             |                                  | Firmware revision       | Revision level of SCSI device firmware   |
|             |                                  | Bus width               | SCSI bus width, for example: 8 bits  |
|             |                                  | Disk size               | SCSI disk size   |
|             |                                  | Hot pluggable           | Specifies if device is hot-pluggable (YES/NO)  |
|             |                                  | Serial number           | Serial number of the SCSI device   |
| COMPAQ8.MIF | Software version information     | Name                    | Name of the . <i>EXE</i> , .SYS, or utility program that runs the particular HP software product |
|             |                                  | Description             | Text description of the software, for example:<br>HP Insight Management Service                  |
|             |                                  | Version                 | Software version   |
| COMPAQ9.MIF | Remote insight board information | Serial number           | Serial number of the Remote Insight Board  |
|             |                                  | Firmware revision       | Firmware revision of the Remote Insight Board  |
|             |                                  | Video status            | Status of the video (ENABLED/DISABLED)   |
|             |                                  | Keyboard status         | Status of the keyboard (ENABLED/DISABLED)  |
|             |                                  | Alert status            | Status of the alerts (ENABLED/DISABLED)  |
|             |                                  | Battery status          | Status of the battery (ENABLED/DISABLED)   |

#### Table 2-2: Inventory Table Contents continued

| Filename     | Inventory Table                          | Туре                               | Description  |
|--------------|--|------------------------------------|--|
| COMPAQ10.MIF | Fibre channel array controller           | Model                              | Fibre Channel Array Controller model   |
|              |  | Firmware revision                  | Firmware revision of Fibre Channel Array<br>Controller   |
|              |  | Serial number                      | Serial number of Fibre Channel Array Controller  |
|              |  | Storage Box I/O slot               | Physical slot within storage box where Fibre<br>Channel Array Controller installed                       |
|              | Fibre channel<br>array logical drive     | Storage box index                  | Index of storage box where logical drive installed   |
|              |  | Logical drive index                | Index of logical drive within a storage box  |
|              |  | Logical drive fault tolerance mode | Fault tolerance mode of the logical drive  |
|              |  | Logical drive size                 | Size in MB of the logical drive  |
|              |  | List of physical drives            | List of physical drive IDs associated with the logical drive   |
|              |  | Accelerator status                 | Status of the accelerator<br>(ENABLED/DISABLED)  |
| COMPAQ10.MIF | Fibre channel<br>array physical<br>drive | Storage box index                  | Index of storage box where physical drive resides  |
|              |  | Physical drive index               | Index of physical drive<br>With Storage Box Index, this uniquely identifies<br>a specific physical drive |
|              |  | Drive model                        | Text description of the physical drive   |
|              |  | Drive size                         | Size in MB of the physical drive   |
|              |  | Firmware revision level            | Firmware revision level of the physical drive  |
|              |  | Serial number                      | Serial number of the physical drive  |

Table 2-2: Inventory Table Contents continued

| Filename     | Inventory Table                        | Туре                        | Description  |
|--------------|--|-----------------------------|--|
| COMPAQ10.MIF | Fibre channel host controller          | Host controller slot        | Identifies physical slot where HP Fibre Channel<br>Host Controller resides     |
|              |  | Model                       | Model name of controller card  |
|              |  | Worldwide name              | User-specified string that can be used to further identify the controller card |
|              | Cluster node information               | Cluster name                | Name of cluster to which this node belongs                                     |
|              |  | Cluster IP address          | Static IP address of cluster   |
|              |  | Cluster node                | Node name  |
|              | Cluster<br>interconnect<br>information | Interconnect physical<br>ID | Physical device identification   |
|              |  | Interconnect transport      | Network transport used by the interconnect, for example: TCP/IP                |
|              |  | Interconnect address        | Address used by the interconnect   |

Table 2-2: Inventory Table Contents continued

## **Command Line Options**

Collect is a command line utility that enables the user to specify options for obtaining HP specific hardware information from SMS clients. These options enable the SMS administrator to specify:

- The names of the .*MIF* files to be created by the client
- The SMS directory where the client places the .*MIF* files

**NOTE:** If this directory is not specified, Collect outputs the inventory tables to the screen.

• The items to be inventoried

NOTE: If the items are not specified, Collect will perform a complete inventory.

• The Collect help screen

Table 2-3 lists the command line options.

#### Table 2-3: Command Line Options

| Option | Name               | Description  | Tables Collected             |
|--------|--------------------|--|------------------------------|
| /F     | Output File        | Specifies the name of the single . <i>MIF</i> file ( <i>Output File.MIF</i> ) created by the client. The default filename is <i>COMPAQ.MIF</i> . |                              |
|        |                    | This output file includes all requested inventory tables.  |                              |
|        |                    | NOTE: Do not use this option with /M.  |                              |
| /H     | Server Health      | Collects Server Health information.  | Health Subsystem             |
| /I     | Drive Array        | Collects Drive Array information.  | All Drive Array tables       |
| /M     | Multiple           | Creates multiple output files named<br>COMPAQ0.MIF – COMPAQ10.MIF.   |                              |
| /SC    | SCSI               | Collects SCSI information.   | SCSI Devices                 |
| /SE    | Standard Equipment | Collects standard equipment information.   | System Attributes            |
| /SMS20 | SMS 2.0            | Places the . <i>MIF</i> files in the SMS 2.0 NOIDMIF directory on the client machine.  |                              |
|        |                    | NOTE: Requires either /F or /M   |                              |
| /SMS   | SMS                | Places the . <i>MIF</i> files in the SMS 1.2 NOIDMIF directory on the client machine.  |                              |
|        |                    | NOTE: Requires either /F or /M   |                              |
| /SS    | Storage System     | Collects storage system information.   | Storage System Attributes    |
| /SW    | Software Version   | Collects software version information.   | Software Version Information |
| /U     | UPS                | Collects UPS information.  | UPS Attributes               |
| /?     | Help               | Displays the Collect Help screen.  |                              |

The command line syntax is:

```
COLLECT [[/M /SMS20|/SMS] /F outfile [/H|/I|/SC|/SE|/SS|/SW|/U] [[/?]]
```

The default command line is typically:

COLLECT /M /SMS20

This places the resulting *.MIF* files in the appropriate client directory so that SMS can update the database with HP specific inventory information.

# **Inventory Collection: Installation and Use**

# Installing the Insight Inventory Collector (Collect)

Version 7.1 of the HP Insight Integration for SMS is delivered with two *Collect.exe* executable files. These enable existing users of *Collect.exe* to retain their current Compaq systems data format, or implement the new HP branded data.

**NOTE:** All future versions of the Insight Inventory Collector will be delivered using only the HP data format.

- HPSMS71\collect\HP\Collect.exe—Presents HP server hardware and operating system inventory data using an HP branded format
- **HPSMS71\collect\CPQ\Collect.exe**—Presents HP server hardware and operating system inventory data using a Compaq branded format

When installed, to determine which version of *Collect.exe* had been implemented use the following command line option collect /?

- The Compaq version of *Collect.exe* will display "HP Inventory Collector Version 7.10C"
- The HP version of *Collect.exe* will display "HP Inventory Collector Version 7.10H"

### **Recommended Installation and Migration Procedure**

HP recommends the following procedure to migrate to the new HP branded version of *Collect.exe* and enable support for future releases of the Insight Inventory Collector.

- 1. Run the new, HP branded version of Collect (7.10H) on the ProLiant systems managed by SMS.
- 2. Check the resulting HP branded tables in SMS against any current Compaq branded tables. The table content should be identical, with "Compaq" replaced by "HP." Note that *Collect.exe* does not control the information displayed in the data sections of the tables, such as the specific name of a PCI board. All HP and Compaq branded data is based upon definitions supplied by the HP Insight Management Agents. The changes to the *Collect.exe* utility have only re-branded the table names and the names of the table rows.
- 3. Run the *removecpq.sql* script to remove all Compaq branded tables from the SMS database.
- 4. The SMS database should now contain only HP branded tables.

### Using the REMOVECPQ.SQL Script

The *removecpq.sql* script removes all Compaq branded data in the SMS database after the HP branded version of *Collect.exe* has been run:

- 1. Open the *removecpq.sql* script with a text editor. The first line reads *USE* <*SMSdbName*>. Replace *<SMSdbName*> with the name of the database used for the SMS installation and then save the edited file.
- 2. Open the SQL Server Enterprise Manager application and connect the SMS SQL Server.
- 3. From the **Tools** menus, open the SQL Query tool.
- 4. Select **File>Open** and select the removecpq.sql script modified in step 1.
- 5. Execute the script. When finished, references to the Compaq tables should be removed from the database.

**NOTE:** You might see several error messages reported by the SQL Script tool. This is expected and should not normally be cause for concern. The SMS database might not contain all possible Compaq tables, and is dependent on the type of inventoried hardware.

6. Check the SMS database for any remaining Compaq tables. SMS occasionally creates redundant tables, denoted by a "1" at the end of the table name. Remove any redundant tables.

# Using the Insight Inventory Collector (Collect)

**IMPORTANT:** To identify applicable pre-installation requirements, refer to Appendix B, "Pre-Installation Requirements."

There are three options for installing and using Collect:

- Using an existing SMS login script to collect the inventory of a particular client
- Issuing SMS advertisements from the site server to schedule inventory collections from specified clients
- Running Collect manually to collect the inventory of a particular client

Each of these options is discussed in the following sections.

**IMPORTANT:** The .MIF files created by the Insight Inventory Collector will not populate the SMS database automatically. The SMS Hardware Inventory service must be configured and active on each managed system in order to retrieve the .MIF files and populate the SMS database. Please refer to the SMS User Guide or application help for full details on configuring and using the hardware inventory feature of SMS.

#### Using the SMS Login Script

The SMS administrator can add Collect to the login script of a particular client so that this client's inventory is collected automatically when the login script is run:

- 1. Copy *Collect.exe* to the site server directories that contain the login script. By default, the login script is named *SMSLS.BAT* and is contained in these directories:
  - %WINNT\_ROOT\SYSTEM32\REPL\EXPORT\SCRIPTS
  - %WINNT\_ROOT\SYSTEM32\REPL\IMPORT\SCRIPTS

NOTE: For information on obtaining Collect.exe, refer to Appendix A, "Obtaining HP Software."

2. Modify the login script in each directory. Add the lines shown underlined:

```
. . .
if not exist %SMS LOCAL DIR%\MS\SMS\CORE\BIN\SMSBOOT1.EXE goto USER
collect /m /sms20
goto END
. . .
:USER
if %SMS LOCAL DIR USER%.==.goto SERVER
if not exist %SMS LOCAL DIR USER%\MS\SMS\CORE\BIN\
SMSBOOT1.EXE goto SERVER
collect /m /sms20
%SMS LOCAL DIR USER%\MS\SMS\CORE\BIN\SMSBOOT1.EXE -S %0 -N
-WINDR=%WINDIR%
goto END
. . .
:SERVER
collect /m /sms20
%0\..\SMSBOOT1.EXE -S %0 -N -WINDR=%WINDR%
goto END ...
```

These modifications allow Collect to execute each time the login script runs.

#### Using Scheduled SMS Advertisements

The SMS administrator can schedule a repeating SMS advertisement from the SMS Administrator console to collect inventory information simultaneously from multiple target machines:

- 1. Create a directory on the site server to hold Collect.
- 2. Copy *Collect.exe* to the new directory.

NOTE: For information on obtaining Collect.exe , refer to Appendix A, "Obtaining HP Software."

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- 3. Create a new SMS package to schedule Collect:
  - a. From the Collect Package Properties window, select the **Data Source** tab.

| Distribution | Settings        | Reportin        | a           | Security  |
|--------------|-----------------|-----------------|-------------|-----------|
| General      | Da              | ta Source       | Data        | Access    |
| 💾 HP (       | Company Insight | Inventory Colle | ctor 7.1 Ch | ange [con |
| Name:        | Insight Inver   | ntary Collector |             |           |
| Version:     | 7.1.0.0         |                 |             |           |
| Publisher:   | HP Company      | y               |             |           |
| Language:    | English         |                 |             |           |
| Comment      |                 |                 |             | <u> </u>  |
|              |                 |                 |             |           |
|              | 1               |                 |             | ¥         |
|              |                 |                 |             |           |
|              |                 |                 |             |           |
|              |                 |                 |             |           |

Figure 3-1: The Collect Package Properties window

| Distribution Settin  | ngs            | Reporting                  | Securi          | ty  |
|--|----------------|----------------------------|-----------------|-----|
| General  | Data           | Source                     | Data Acces      | s   |
| pecify whether this p<br>itial location of the fi  |                |                            |                 | the |
| I this package cor<br>Source version:  |                | files<br>sday, September O | 1, 2004 17:45:0 | 0)  |
| Source directory   | 0.00           |                            |                 |     |
| <directory on="" s<="" site="" td=""><td>server&gt; C: vHr</td><td>* 5M52.0 7.1 \Lole</td><td>ect\ Set</td><td></td></directory> | server> C: vHr | * 5M52.0 7.1 \Lole         | ect\ Set        |     |
| O Use a compress   | sed copy of th | ne source directory        | i i i           |     |
| Always obtain fi   | les from sourc | ce directory               |                 |     |
| 🔽 Update distribu  | tion points or | a schedule                 |                 |     |
| Occurs every 1 day   | y(s) effective | 6:17 PM Wednesd            | Jay             |     |
|  |                |                            |                 |     |
|  |                |                            | Schedule.       |     |
|  |                |                            |                 |     |

b. Select **This package contains source files** in the **Data Source** tab.

Figure 3-2: The contents of the Data Source tab

- c. Specify the name of the new directory as the source directory.
- d. Be sure that SMS always uses the most recently installed version of Collect by selecting the **Always obtain files from source directory** radio button and selecting the **Update distribution points on a schedule** checkbox.

**IMPORTANT:** It is the SMS administrator's responsibility to make sure that the version of Collect in the source directory is updated as required. All clients running the advertisement after the update will use the most recently installed version.

- e. If the SMS administrator never expects to update the current version of Collect, select **Use a compressed copy of the source directory,** if required.
- f. Click OK.

- 4. Specify the Collect command line:
  - a. From the SMS Administrator console, expand the package just created.



Figure 3-3: Expanding the new package

b. Right-click **Programs** and select **New** from the resulting dropdown menu. Select **Program** to obtain the Run Collect Program Properties window.



Figure 3-4: Obtaining the Collect Program Properties window

c. In the **General** tab, specify a name for the command line, and then specify the command line.

**NOTE:** The default command line is: COLLECT /M /SMS20. For information on command line options, refer to Chapter 2, "Insight Inventory Collector: Features."

| Collect Program        | - 20 M                       | 3              |
|------------------------|------------------------------|----------------|
| eneral Requireme       | nts   Environment   Advanced | 1              |
| <u>N</u> ame:          | Run Collect                  | Change Icon    |
| Comment                |                              | 4              |
| Co <u>m</u> mand line: | collect /m /sms20            | <u>B</u> rowse |
| <u>S</u> tart in:      |                              |                |
| <u>B</u> un:           | Normal                       |                |
| After running:         | No action required           |                |
|                        |                              |                |
|                        |                              |                |
| 0                      | Cancel                       | Apply Help     |

Figure 3-5: Specifying the Collect command line

d. To enable Collect to run from the client whether or not a user is logged on, select the appropriate option from the Program Can Run dropdown menu in the **Environment** tab.

| A program may require certain conditions to be true before it can run.<br>Specify the conditions that must be met for the program to run.  Program can run User ipput required Bun with edministrative rights Use Windows NT client software installation account Drive mode Runs with UNC name Requires drive letter Requires geocific drive letter. | eneral Requirem    | ents Environment Advanced               |           |
|---|--------------------|---|-----------|
| □ User ignit required<br>□ Bun with edministrative rights<br>□ Use Windows NT client software installation account<br>□ Drive mode<br>○ Runs with UNC name<br>○ Requires drive jetter   |                    |   |           |
| Bun with edministrative rights     Use Windows NT client software installation account     Drive mode     Runs with UNC name     Requires drive jetter  | Program can run:   | Whether or not a user is lo             | gged on 💌 |
| Use Windows NT client software installation account<br>Drive mode<br>© Runs with UNC name<br>© Requires drive jetter  | 🔲 User izput requ  | ired                                    |           |
| © Runs with <u>U</u> NC name<br>○ Requires drive jetter   | 🗵 Bun with edmin   | ristrative rights                       |           |
| Runs with UNC name     Requires drive letter  | Use Windows I      | NT client software installation accourt | t.        |
| C Requires drive letter   | Drive mode         |   |           |
|   | Runs with <u>U</u> | NC name                                 |           |
| C Requires specific drive letter:   | C Requires dri     | ve jetter                               |           |
|   | C Requires sp      | ecific drive letter:                    |           |
| Reconnect to distribution point at logon.   | El Beconcecti      | a distribution opini at logon           |           |
|   |                    |   |           |
|   |                    |   |           |
|   |                    |   |           |
|   |                    | IK Cancel Apple                         | / Help    |

Figure 3-6: Selecting the "Whether or not a user is logged on" option

e. In the **Requirements** tab, select the client platforms on which Collect will run when scheduled. Collect is supported on: all x86 NT 4.0 clients, all x86 Windows 2000 clients, and all x86 Windows Server 2003 clients.

| in Colle                 | ct Program Pr   | operties                |                       | ?               |
|--------------------------|---|-------------------------|-----------------------|-----------------|
| General                  | Requirements  | Environment Adv         | vanced                |                 |
| A progr<br>comput        | stand of a second se | ts determine whethe     | r it is appropriate I | or a particular |
| Estimat                  | ed <u>d</u> isk space:  | Unknown 💌               | К8 💌                  | ,               |
| Estimat                  | ed run time:  | Unknown 💌               | minutes               |                 |
|                          | ify user if the pro   | gram runs 15 minute     | s longer than esti    | mated           |
| C Thi                    | s program <u>c</u> an ru  | in on any platform      |                       |                 |
| <ul> <li>This</li> </ul> | s program can ru  | in grily on specified p | platforms:            |                 |
|                          | I x86 NT 4.0 Cli  |                         |                       | -               |
|                          | I x86 NT Clients<br>I x86 Windows :   |                         |                       |                 |
|                          |   | Server 2003 Clients     |                       | •               |
| Addice                   | nal requirements  |                         |                       |                 |
|                          | ioiTednieiliours  | 6.                      |                       |                 |
|                          |   |                         |                       |                 |
|                          |   |                         |                       | *               |
|                          | OK  | Cancel                  | heelu                 | Help            |
|                          | UK  | Lancel                  | Apply                 | neip            |

Figure 3-7: Selecting the client platforms on which Collect will run

f. Create a new distribution point for the package.



Figure 3-8: Creating a new distribution point

g. Select the distribution point for the package.

|                 | points not currently storin<br>to you want to copy the | ig the package are listed bei<br>package to. | ow. Select the |
|-----------------|--|--|----------------|
| Distribution po | ints:  | [  | Select Al      |
| Name            | Site   | Туре   | Clear All      |
| ☑ SET           | HP - Compag  | Windows NT Server                            | Select Group.  |
| •[              |  | ×  |                |
|                 | ckage to the new distribu                              |  |                |

#### Figure 3-9: Selecting the distribution point

- 5. Create an advertisement to distribute Collect to the target machines:
  - a. From the SMS Administrator console, right-click the Advertisements icon.
  - b. Click New.
  - c. Click Advertisement.



Figure 3-10: Obtaining the Advertisement Properties window

To schedule regular executions of Collect, create a mandatory schedule under the **Schedule** tab of the SMS Advertisement Properties window.

| Collect Advertisement Properties  |  |  |  |  |
|---|--|--|--|--|
| General Schedule Security   |  |  |  |  |
| Specify when the program will be advertised to members of the target<br>collection. You can also create assignments to make the program<br>mandatory. |  |  |  |  |
| Advertisement start time:   |  |  |  |  |
| 7/ 6/2004 💽 9:51 AM 🚔 🗖 Greenwich Mean Time   |  |  |  |  |
| Mandatory Assignments:  |  |  |  |  |
| Occurs every 1 week(s) on Thursday effective 9:51 AM Thursday, Ma   |  |  |  |  |
| Assignments are not mandatory over slow links   |  |  |  |  |
| Allow users to run the program independently of assignments   |  |  |  |  |
| Advertisement will expire:  |  |  |  |  |
| 11/28/2002 🔄 9:51 AM 🚔 🗖 Greenwich Mean Time  |  |  |  |  |
| Priority: High  |  |  |  |  |
| OK Cancel Apply Help  |  |  |  |  |

Figure 3-11: Creating a mandatory schedule

### **Running Collect Manually**

At a smaller site, it might be more convenient to run Collect directly from a client machine. Use this procedure:

- 1. Create a directory on the local hard drive to hold Collect.
- 2. Copy *Collect.exe* to the new directory.

**NOTE:** For information on obtaining Collect.exe, refer to Appendix A.

- 3. Switch to the new directory.
- 4. Run Collect from the command line.

**NOTE:** The default command line is: COLLECT /M /SMS20. For information on command line options, refer to Chapter 2, "Insight Inventory Collector: Features."

5. Log in to a domain managed by SMS so that the *.MIF* files created by Collect can be read by SMS at the next scheduled hardware inventory period.

# **Related Activities**

After installing and executing Collect, the SMS administrator can perform other related operations:

- Viewing the .*MIF* files
- Querying SMS databases

### Viewing the .MIF Files

The information contained in the *.MIF* files created by Collect can be viewed in the Resource Explorer window at the SMS Administrator console.



Figure 3-12: Sample Resource Explorer window

In the previous example, the following HP specific inventory information is displayed:

Table 3-1: Examples of Viewing .MIF Files

| Hardware Component  | . <i>MIF</i> File | Table            |
|---------------------|-------------------|------------------|
| HP CPU              | COMPAQ0.MIF       | CPU Attributes   |
| HP EISA/PCI SLOTS   | COMPAQ0.MIF       | EISA/PCI Slots   |
| HP HEALTH SUBSYSTEM | COMPAQ3.MIF       | Health Subsystem |

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| HP MEMORY MODULES    | COMPAQ0.MIF | Memory Module Attributes     |
|----------------------|-------------|------------------------------|
| HP SCSI DEVICES      | COMPAQ7.MIF | SCSI Devices                 |
| HP SOFTWARE VERSIONS | COMPAQ8.MIF | Software Version Information |
| HP SYSTEM            | COMPAQ0.MIF | System Attributes            |

For more information on the inventory information contained in *.MIF* files, refer to Chapter 2, "Insight Inventory Collector: Features."

### **Querying SMS Databases**

After the HP specific inventory information has been added to an SMS database, the SMS administrator can query this information in the same manner as generic inventory information.

4

# **HP Software Distribution Files: Features**

## Capabilities

Since the task of configuring software packages and advertisements can be manually intensive, Microsoft SMS 2.0 features a flexible software distribution that uses *.SMS* text files to facilitate the creation of software packages.

The Insight Integration for SMS 2.0 includes additional *.SMS* files to distribute the following HP specific software products:

- Insight Management Agents for ProLiant servers
- ProLiant Support Pack Software for Windows 2000 and 2003
- Insight Inventory Collector

Each *.SMS* file includes programs that provide the SMS administrator with options for distributing and installing the particular software product.

# **Distribution Programs**

Table 4-1 lists distribution programs contained in the HP Software Distribution Files (.SMS).

| Software Product               | Program                  | Description  |  |
|--------------------------------|--------------------------|--|--|
| Insight Management Agents      | Manual Install of Agents | Launches the Insight Management Agents setup<br>program then waits for user input. Does not perform a<br>reboot on completion. |  |
|                                | Silent Install of Agents | Performs an automated install or upgrade of the<br>Insight Management Agents. Does not perform a<br>reboot on completion.      |  |
|                                |                          | <b>NOTE:</b> A user does not need to be logged on to the target machine for the install program to function correctly.         |  |
| ProLiant Support Pack Software | Manual Driver Install    | Launches the ProLiant Support Pack setup program<br>then waits for user input. Does not perform a reboot<br>on completion.     |  |

Table 4-1: Distribution Options

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|                             | Automated Driver Install            | Performs an automated install of a ProLiant Support<br>Pack on a target server. Checks for new hardware,<br>adds updates to the latest drivers and management<br>agents. Does not perform a reboot on completion. |  |
|-----------------------------|-------------------------------------|---|--|
|                             | Automated Driver Install and Reboot | Performs an automated install of a ProLiant Support<br>Pack on a target server. Checks for new hardware,<br>adds updates to the latest drivers and management<br>agents. Performs a reboot on completion.         |  |
| Insight Inventory Collector | AutoRun                             | Automatically runs the Inventory Collector and produces a full set of COMPAQx.MIF files for the target machine.   |  |
# **Software Distribution Files: Use**

# **Distributing HP Software Products**

The process for using Microsoft SMS 2.0 to distribute HP software products includes:

- Preparing the site server
- Creating a package for the software
- Creating queries to target the distribution to specific clients
- Creating the advertisement to distribute the software

**IMPORTANT:** To identify applicable pre-installation requirements, refer to Appendix B, "Pre-Installation Requirements."

# **Preparing the Site Server**

To prepare the site server for software distribution, it is recommended that a source directory be created on the SMS site server, into which the appropriate files are copied.

**NOTE:** Since SMS can obtain software product source files and .*SMS* files from any share available on the network, these steps are not strictly necessary. For information on where to obtain product source files and .*SMS* files, refer to Appendix A, "Obtaining HP Software."

Use this procedure to prepare the site server:

- 1. Create a source directory on the SMS site server.
- 2. Copy the appropriate .*SMS* file to the source directory.
  - collect.sms—Definition file for the Inventory Collector
  - winhpagnt70.sms—Definition file for Insight Management Agents 7.0 for ProLiant servers running Windows 2000 or 2003
  - winhpagnt71.sms—Definition file for Insight Management Agents 7.1 for ProLiant servers running Windows 2000 or 2003
  - winhppsp.sms—Definition file for the ProLiant Support Pack v7.0 and 7.1 for Windows 200 and 2003

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**NOTE:** The predefined .SMS files to deploy Insight Management Agents are designed for use with specific versions and component files delivered with ProLiant Support Packs. To deploy other versions of the Insight Management Agents, the *winhpagt7x.sms* files can be edited to reflect an alternative component file. See the ProLiant Support Pack release notes and index files to identify specific component names.

3. Using the file *winhpagnt70.sms* as an example, edit the bolded items to reflect the desired replacement values and save as a .SMS file

[PACKAGE DEFINITION] LANGUAGE=English NAME=Insight Management Agents for Windows 2000/2003 VERSION=7.0 PUBLISHER=HP Company PROGRAMS=ManualInstall, SilentInstall [PDF] Version=2.0 [MANUALINSTALL] ADMINRIGHTSREQUIRED=True SUPPORTEDCLIENTS=Win NT (i386) USERINPUTREOUIRED=True WIN NT (I386) MINVERSION1=5.00.0000.0 WIN NT (I386) MAXVERSION1=5.00.9999.9999 WIN NT (1386) MINVERSION2=5.20.0000.0 WIN NT (I386) MAXVERSION2=5.20.9999.9999 COMMANDLINE=cp003732.exe NAME=Manual Install Insight Management Agents CANRUNWHEN=UserLoggedOn DRIVELETTERCONNECTION=True EstimatedDiskSpace=10 MB [SILENTINSTALL] ADMINRIGHTSREQUIRED=True SUPPORTEDCLIENTS=Win NT (i386) USERINPUTREQUIRED=False WIN NT (I386) MINVERSION1=5.00.0000.0 WIN NT (I386) MAXVERSION1=5.00.9999.9999 WIN NT (1386) MINVERSION2=5.20.0000.0 WIN NT (I386) MAXVERSION2=5.20.9999.9999 COMMANDLINE=Setupc cp003732.exe NAME=Silent Install Insight Management Agents CANRUNWHEN=AnyUserStatus DRIVELETTERCONNECTION=True EstimatedDiskSpace=10 MB

4. Copy the source files for the software product to be distributed to the source directory.

**IMPORTANT:** Make sure that the appropriate version of the software product is copied to the defined source directories:

- Insight Management Agents version 7.0 or 7.1
- ProLiant Support Pack version 7.0 or 7.1

For information on obtaining software products, refer to Appendix A, "Obtaining HP Software."

# **Creating a Package**

After preparing the site server, use the Create Package from Definition wizard to create a package for the software product to be distributed:

- 1. To invoke the wizard:
  - a. In the SMS administrator console, right-click Packages.
  - b. Click New.
  - c. Click Package from Definition.



Figure 5-1: Invoking the Create Package from Definition wizard



2. Click Next to start the Create Package from Definition wizard.

Figure 5-2: The Create Package from Definition wizard

3. Use **Browse** to select the directory where the *.SMS* file for the particular software product is located.

| Create | e Package from                           | n Definitio | n Wizard         |               |               |                  |            | × |
|--------|--|-------------|------------------|---------------|---------------|------------------|------------|---|
| Pa     | <b>ckage Definitio</b><br>Select the pac |             | on to use as t   | ne template i | for the new p | ackage.          |            |   |
|        | Select the pub<br>need is not liste      |             |                  |               |               | ickage definitio | on you     |   |
|        | <u>P</u> ublisher:                       | HP          |                  |               |               | Brow             | se )       |   |
|        | Package <u>d</u> efi                     | nition:     |                  |               |               |                  |            |   |
|        | Name                                     |             |                  |               | Version       | Language         |            |   |
|        |  |             | for Windows 2    |               | 7.0/7.10      | English          |            |   |
|        | 🗎 Insight Ma                             | inagement A | gents for Win    | dows 200      | 7.0/7.1       | English          |            |   |
|        | Open                                     |             |                  |               |               |                  | <u>?</u> × |   |
|        | Look jn: 🔂                               | Windows S   | erver            |               | - + 6         | - 📫 📰 -          |            |   |
|        | 🗐 winhpagnt                              |             |                  |               |               |                  |            |   |
| -      | winhppsp                                 |             |                  |               |               |                  |            |   |
|        |  |             |                  |               |               |                  |            |   |
|        |  |             |                  |               |               |                  |            |   |
|        |  |             |                  |               |               |                  |            |   |
|        |  |             |                  |               |               |                  |            |   |
|        |  |             |                  |               |               |                  |            |   |
|        | File <u>n</u> ame:                       |             |                  |               |               | <u>O</u> per     | 1          |   |
|        | Files of type:                           | Package     | definition files | (*.sms;*.pdf) | •             | Canc             | el         |   |
|        |  |             |                  |               |               |                  | /          |   |

Figure 5-3: Selecting the .SMS file

4. Identify the HP software product to be distributed.

| Create | Package from Definition Wizard   |               |   | ×      |
|--------|--|---------------|---|--------|
| Pac    | kage Definition<br>Select the package definition to use as the template f  | for the new p | backage.                                |        |
|        | Select the publisher and definition for your new packa<br>need is not listed and you have an installation disk, cl   |               | ackage definition yo                    | pu     |
|        | Publisher: HP  |               | ▼ B <u>r</u> owse                       |        |
|        |  |               |   |        |
|        | Package definition:  |               | , |        |
|        | Name   | Version       | Language                                |        |
|        | ProLiant Support Pag for Windows 2000/2003   | 7.0/7.10      | English                                 |        |
|        | Since the second | 7.0/7.1       | English                                 |        |
|        | ProLiant Support Pack for Windows 2000/2003  | 7.0/7.10      | English                                 |        |
|        |  |               |   |        |
|        | I  |               |   |        |
|        |  |               |   |        |
|        |  |               |   |        |
| -      |  |               |   |        |
|        | ( D-   |               |   | 1      |
|        | <u>&lt; B</u> a  |               | Next > C                                | Cancel |

Figure 5-4: Selecting the HP software product to be distributed

- 5. Specify how SMS will manage the source files:
  - If the files will always be available in a source directory, select Always obtain files from a source directory.

**IMPORTANT:** It will be the SMS administrator's responsibility to make sure that the files in the source directory are updated as required so that clients running this advertisement always receive the latest versions of the files.

- If the source files will never be updated, select **Create a compressed version of the source.**
- If the advertisement consists of a command line but no source files, select This package does not contain any files.

| r <b>ce Files</b><br>Specify how SMS should manage source fil   | les.                                    |
|---|---|
| Source files are data files or executables th   | at must be made available to clients.   |
| If this package contains source files, specif<br>directory whenever the package is distributi<br>and store the compressed data for distributi | ed, or whether SMS should compress then |
| C <u>I</u> his package does not contain any files   | s                                       |
| Always obtain files from a source director  | No.                                     |
| C Create a compressed version of the sou  | urce .                                  |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

Figure 5-5: Managing the source files

6. Identify the directory containing the product source files. Typically these files are located on the SMS site server.

| eate Package from Definition Wizard  | × |
|--|---|
| Source Directory<br>Specify the directory containing the source files for this package.                      |   |
| Make sure that this directory is accessible to the SMS Service Account for as long as<br>the package exists. |   |
| Package: ProLiant Support Pack for Windows 2000/2003   |   |
| Source directory location:   |   |
| Network path (UNC name)  |   |
| <ul> <li>Local drive on site server</li> </ul>   |   |
| Source directory:  |   |
| C:\hp\Support Packs\Windows Server   |   |
| Syntax: C:\Path  |   |
| < <u>B</u> ack <u>N</u> ext > Cancel   |   |

Figure 5-6: Identifying the directory that contains the source files

- 7. Click Next.
- 8. Click **Finish** to exit the Create Package from Definition wizard.
- 9. After creating the package, start the New Distribution Points wizard to specify which SMS distribution points will receive the package.

NOTE: Clients receive the package from one of the configured distribution points.

- a. Right-click on the new package on the SMS Administrator console.
- b. Click New.

#### c. Click Distribution Points.



#### Figure 5-7: Obtaining the New Distribution Points wizard

10. Select the distribution points for the new package.

| Distribution Poin                       | ts Wizard   |  |                     |
|---|---|--|---------------------|
| <b>Copy Package</b><br>Select the new ( | distribution points for the                           | package.                                 |                     |
|   | points not currently storir<br>s you want to copy the | ng the package are listed<br>package to. | I below. Select the |
| Distribution poi                        | nts:  |  | Select <u>A</u> ll  |
| Name                                    | Site  | Туре                                     | — Clear All         |
| SET SET                                 | HP - Compaq   | Windows NT Server                        |                     |
|   |   |  | Select Group        |
| •                                       |   |  | •                   |
| To copy the pac                         | kage to the new distribu                              | ition points, click Finish.              |                     |
|   |   |  |                     |
|   |   |  |                     |
|   |   | < Back                                   | Finish Cancel       |
|   |   |  |                     |

Figure 5-8: Selecting the distribution points

# **Creating a Query to Target Advertisements**

Any information in the SMS database (including HP specific information obtained by the Insight Inventory Collector) can be the subject of a query. The SMS administrator can use the results of a query (known as a collection) to target software advertisements to specific machines.

If the SMS administrator is distributing a software package to a large number of clients, it might be advisable to break the distribution into a series of smaller waves to ease the burden on the network and distribution points. To achieve this, the SMS administrator can:

- Create queries to target different groups of clients, for example, clients requiring a manual install and those requiring an automatic install.
- Schedule advertisements to run at different times.

For information on creating queries, refer to *Microsoft Systems Management Server 2.0* Administrator's Guide.

#### Example of the Use of Queries

To spread the distribution load on the network over a longer period, the SMS administrator can do one of the following:

- Create a query to send a manual install to machines that are operated by knowledgeable users and an additional query to target machines where an automatic install is advisable.
- Create queries that target a small sub-set of machines to perform an automatic install then create several advertisements scheduled to run at different times that use each query as their target.

For information on using collections to target advertisements, refer to *Microsoft Systems Management Server 2.0 Administrator's Guide*.

**IMPORTANT:** The SMS administrator should take care when specifying Auto Install of Agents because installation failure can occur.

The Microsoft Windows *SETUP.EXE* application is used to install the Microsoft Management Agents. This application opens windows during the installation process which can lead to unpredictable results during a background install

The client end-user can avoid this potential problem by running a password-protected screen saver during an automated installation or by making sure that qualified personnel are available to carry out a manual installation when the software package arrives.

# **Creating an Advertisement**

After determining how the package will be distributed, use this procedure to create a suitable advertisement:

- 1. To obtain the Advertisement Properties window:
  - a. In the SMS Administrator console, right-click Advertisements.
  - b. Click New.
  - c. Click Advertisement.



Figure 5-9: Obtaining the Advertisement Properties window

- 2. Using the **General** tab of the Advertisement Properties window, specify the contents of the advertisement:
  - a. Specify a name for the advertisement.
  - b. Identify the software package to be distributed.
  - c. Specify the particular program from the HP Software Distribution File to be run on the client. For more information on these programs, refer to Chapter 4, "HP Software Distribution Files: Features."

d. Specify the collection targeting the clients that will receive this advertisement.

| Advertisement P  | roperties  | ? ×  |
|------------------|--|------|
| General Sched    | ule Security                                       |      |
| <u>N</u> ame     | e: ProLiant Support Pack                           |      |
| <u>C</u> omment: |  | ×    |
| Package:         | HP Company ProLiant Support Pack for Windows 2     | 00 - |
| Program:         | Automated Install/Reboot for ProLiant Support Pack | · •  |
| Collection:      | All Windows NT Systems                             | e ]  |
| ☑ include n      | nembers of subcollections                          |      |
|                  | OK Cancel Apply H                                  | Help |

Figure 5-10: Specifying the contents of the advertisement

- 3. Using the **Schedule** tab, specify the distribution criteria:
  - a. Set the priority to be assigned by SMS to the advertisement.
  - b. If required, make the advertisement mandatory. In this case, use the starburst icon to schedule the advertisement or specify that the advertisement will run when a particular client event occurs.

| Advertisement Properties  |
|---|
| General Schedule Security   |
| Specify when the program will be advertised to members of the target<br>collection. You can also create assignments to make the program<br>mandatory.   |
| Advertisement start time:   |
| 5/28/2004 💌 4:20 PM 🐳 🗖 <u>G</u> reenwich Mean Time   |
| Mandatory Assignments:  |
| Occurs day 28 of every 1 month(s) effective 4:24 PM Wednesday, Jul <ul> <li>▲</li> <li>▲</li></ul> |
| Allow users to run the program independently of assignments   |
| Advertisement will expire:       1/26/2005     4:20 PM       Encode     Fill       Priority:     Medium   |
| OK Cancel <u>Apply</u> Help   |

Figure 5-11: Specifying distribution criteria

4. Click **OK** to save the advertisement. SMS now places the package on the SMS distribution points and notifies clients at the appropriate time that an advertisement is ready to run.

A

# **Obtaining HP Software**

# **Locating Source Files for HP Products**

Source files for HP products are available at the following locations.

| Table A-1: | Locations | of Source Files |
|------------|-----------|-----------------|
|------------|-----------|-----------------|

| Product  | Location   |
|--|--|
| Insight Management Agents for ProLiant Servers | HP Management CD:<br>\compaq\csp\nt                  |
|  | or   |
|  | HP Support and Drivers website:                      |
|  | http://welcome.hp.com/country/us/en/support.<br>html |
| ProLiant Support Pack                          | HP SmartStart for Servers CD:<br>\compaq\csp\nt      |
|  | or   |
|  | HP Support and Drivers website:                      |
|  | http://welcome.hp.com/country/us/en/support.<br>html |
| HP Insight Integration for SMS                 | http://www.hp.com/servers/integration                |
| Insight Inventory Collector (Collect)          |  |
| HP Software Distribution Files (.SMS)          |  |

Β

# **Pre-Installation Requirements**

# **Supported Hardware Platforms**

Supported hardware platforms are:

- HP ProLiant servers
- HP ProSignia servers

# **Requirements for SMS**

Before installing SMS 2.0, make sure that the following requirements are met:

- Minimum hardware requirements:
  - HP ProLiant or ProSignia server with a Pentium Pro 200 processor
  - SMS only: 128MB RAM; SMS and SQL Server: 256MB RAM
  - 1GB available hard disk space; if using the machine to run SQL Server or distribute software packages: 4GB
- Minimum software requirements:
  - For site servers: Microsoft Windows NT® Server 4.0 with Service Pack 4
  - For site servers: Microsoft SQL Server for Windows NT 6.5 with Service Pack 4

**IMPORTANT:** Since SMS depends heavily on the use of Microsoft SQL Server as a data store, tuning of the SQL Server is highly recommended to optimize performance. For more information, refer to the Microsoft SQL Server documentation.

# **Requirements for Insight Management Agents**

The Insight Integration for SMS supports Insight Management Agents for ProLiant servers. Refer to the "Requirements for the Insight Integration for SMS" section for version-specific data.

Before installing the Insight Management Agents, make sure that the following requirements are met:

• Minimum hardware requirements:

- 32MB available RAM; 48MB recommended
- 35MB available hard disk space
- Network Interface Controller (NIC) supported by Microsoft Windows NT 4.0 SP4, or later
- Minimum software requirements:
  - Microsoft Windows NT 4.0 SP4
  - SNMP and TCP/IP stacks installed
  - If managing NetWare servers with IPX protocol: NWLink IPX/SPX transport

# **Requirements for the Insight Integration for SMS**

To successfully implement the Insight Integration for SMS, certain pre-installation conditions must be met for the following main components:

- Insight Inventory Collector
- HP Software Distribution Files

The minimum requirements are detailed in the following section.

# **Requirements for the Insight Inventory Collector**

Before installing the Insight Inventory Collector, make sure that these requirements are met:

- Minimum hardware requirements:
  - 1MB available disk space
  - NIC supported by Microsoft Windows NT 4.0 SP4 or later
- Minimum software requirements:
  - Windows NT 4.0 SP4 or later
  - HP Insight Management Agents v6.0 and later

# **Requirements for HP Software Distribution Files**

HP Software Distribution Files are designed for use with ProLiant servers running Microsoft Windows 2000 and 2003. There are no additional pre-installation requirements.

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